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ILLUSTRATIONS
OF
NORTH AMERICAN LEPIDOPTERA,
SPHINGIDÆ.

BY
J. W. WEIDEMEYER, S. CALVERLEY
AND

W. H. EDWARDS.

PHILADELPHIA.
THE AMERICAN ENTOMOLOGICAL SOCIETY.
1903.



Fourteen copies published of which this is No. **11**

PREFACE.

The American Entomological Society purchased the plates of this work from Mr. W. H. Edwards, and I considered them of sufficient importance to ask this Society to undertake their publication. We possess one copy colored and thirteen plain. Mr. Edwards speaks of twenty-eight (?) plates, but our sets run to twenty-seven only. There is one copy of the plates in the library of Cornell University, and one copy in the American Museum of Natural History in New York City, those I believe are both colored. The Brooklyn Institute of Arts and Sciences owns twenty-five to thirty sets, of which two are colored. Many of the figures are excellent, and some, as Mr. Edwards states, very poor. There are one hundred and thirty-two figures. I have given a list of the species in accordance with Kirby's Catalogue of the Heterocera, Vol. I, 1902.

HENRY SKINNER.

I am asked by Dr. Skinner to tell what I know concerning the making of these plates of the American Sphingidæ. The winter of 1862-1863 I spent in New York, and found that John W. Weidemeyer and Stephen Calverley had begun a work that was intended to give illustrations of all the known species of the Sphingidæ found either in North or South America, and Plate I had already issued. On that Plate may be seen the names of the two gentlemen. I found that a German lithograph artist by name of Walo had made the drawings on the stone from life, and had colored one plate for each of the parties interested. Also each had fifty or seventy-five plain plates struck off for himself. I asked that I might join in the project, and was admitted on equal terms with the others. My name was put on Plate III, and is on all that followed. The insects were provided from the collections of one or other of the projectors. I, myself, furnished the example of *elio* figured. It was taken in my father's house, at Hunter Village, in the Catskills, on the night of September, 11, 1865. It was perfectly fresh, and apparently on its first flight. It seemed therefore to have come from a larva that had lived in the neighborhood. So far as I now recollect the species had never been seen within hundreds of miles so far north. No letter press was printed with the plates. It was understood that Mr.

Weidemeyer was to attend to that at a future convenient time, but he never made a beginning. The first plates were all drawn from life, but at Plate IX or X Mr. Weidemeyer began to copy figures from books—Cramer, Herbst and others. I objected to this, but was overruled. All those old figures are coarse, and many quite unrecognizable.

As there were some American species in the collection of the British Museum that had never been figured, I was authorized to secure plates of them if possible. I wrote Mr. Francis Walker, head of the Entomological Section of the Museum, and he very kindly undertook to find an artist and have the species figured. These are upon Plates XVI, XVII and XVIII. Our series went as far as Plate XXVIII(?), and suddenly was stopped by Mr. Weidemeyer. He never told me why; but he sold his whole collection of insects, and gave up the study. About ten years ago I applied to him to know if he would sell me his plates, and the reply was that they were utterly lost, he knew not how. The plates now edited by Dr. Skinner are those which belonged to me.

WM. H. EDWARDS.

Coalburgh, West Virginia, March 26, 1903.

NORTH AMERICAN LEPIDOPTERA, SPHINGIDÆ.

BY

J. W. WEIDEMEYER, S. CALVERLY

AND

W. H. EDWARDS.

TAB. 1.

Fig. 1. *Sphinx chersis* *Hubn.*
cinerea Harr.
" 2. *Ceratomia amyntor* *Hubn.*
quadricornis Harr.
" 3. *Sphecodina abbotti* *Swains.*
" 4. *Eusmerinthus geminatus* *Say.*
" 5. *Gargantua eremitus* *Hubn.*
sordida Harr.

TAB. 2.

Fig. 1. *Gargantua luscitiosa* *Clem.*
" 2. " " "
" 3. *Hyloicus plebeia* *Fabr.*
" 4. *Dilophonota obscura* *Fabr.*
" 5. *Everyx myron* *Cram.*
pampinatrix Abb. and
Smith.
" 6. *Everyx chœrilius* *Cram.*

TAB. 3.

Fig. 1. *Deidamia inscriptum* *Harr.*
" 2. *Amphion nessus* *Cram.*
" 3. *Marumba modesta* *Harr.*
" 4. *Darapsa versicolor* *Harr.*
" 5. " " " "

TAB. 4.

Fig. 1. *Dupo vitis* *Linn.**
" 2. *Hemaris thysbe* *Fabr.*
" 3. " *difflinis* *Boisd.*
" 4. *Paonias excæcata* *Abb. and Sm.*
" 5. *Deilephila gallii* *Rott.*
" 6. *Tripteron lugubris* *Linn.*

TAB. 5.

Fig. 1. *Sphinx kalmiæ* *Abb. and Smith.*
" 2. *Dolba hylæus* *Dru.*
" 3. *Gargantua gordius* *Cram.*
" 4. *Deilephila lineata* *Fabr.*
daucus *Cram.*
" 5. *Cressonia juglandis* *Abb. and Sm.*
" 6. " " "

TAB. 6.

Fig. 1. *Pholus achemon* *Dru.*
" 2. *Philampelus satellitia* *Linn.*
" 3. *Theretra tersa* *Linn.*
" 4. *Ellema harrisii* *Clem.*

TAB. 7.

Fig. 1. *Dilndia brontes* *Dru.†*
" 2. *Phlegethonius cingulata* *Fabr.*

* This probably represents *D. linnei* Grote and Rob.

† May be *Daremma undulosa* Walk. (*brontes* Boisd.).

NORTH AMERICAN LEPIDOPTERA, SPHINGIDÆ.

Fig. 3. *Phlegethontius sexta* Joh.
carolina Linn.
 " 4. *Phlegethontius quinquemaculatus* Haw.

TAB. 8.

Fig. 1. *Calasymbolus astylys* Dru.
 " 2. " " " "
 " 3. *Sphinx drupiferarum* Abb. and Smith.
 " 4. *Eusmerinthus myops* Abb. and Smith.
 " 5. *Chlaenogramma jasminearum* Guer.

TAB. 9.

Fig. 1. *Aellopos tantalus* Linn.
 " 2. *Smerinthus ophthalmicus* Boisd.
 " 3. *Phlegethontius rustica* Fabr.
 " 4. *Pterogon ganrae* Abb. and Smith.
 " 5. *Perigonia lusca* Fabr.
 " 6. *Phlegethontius pellenia* Herr.-Schäff.

TAB. 10.

Fig. 1. *Phlegethontius ochus* Klug.
 " 2. *Cocytius antæus* Dru.
 " 3. *Diludia florestan* Stoll.

TAB. 11.

Fig. 1. *Pachylia ficus* Linn.
 " 2. *Dupo thypon* Klug.
 " 3. *Pachylia syces* Hubn.
inornata Clem.

TAB. 12.

Fig. 1. *Ellema coniferarum* Abb. and Sm.
 " 2. *Enpyrrhoglossum ceculus* Cram.
 " 3. *Argens labruscae* Linn.
 " 4. *Eupyrrhoglossum sagra* Poey.
 " 5. *Dupo vitis* Linn.

TAB. 13.

Fig. 1. *Ambulyx strigilis* Linn.
 " 2. *Anceryx alope* Dru.
 " 3. *Dieneces clarkiae* Boisd.*
 " 4. *Theretra chiron* Dru.
 " 5. *Enproserpinus phaeton* Grote and Rob.

TAB. 14.

Fig. 1. *Unzela japix* Cram.
 " 2. *Theretra dranens* Cram.
 " 3. *Cocytius clientinus* Cram.
 " 4. *Everyx pholus* Cram.
 " 5. *Phryxus caicus* Cram.

TAB. 15.

Fig. 1. *Triptogon camertus* Cram.
 " 2. *Phlegethontius paphus* Stoll.
 " 3. *Pseudophinx tetrio* Linn.
hasdrubal Stoll.
 " 4. *Isognathus scyron* Stoll.
 " 5. *Calliomma licastus* Stoll.

TAB. 16.

Fig. 1. *Dilophonota omphaleæ* Boisd.
anotrus Grote.
 " 2. " *elio* Linn.
 " 3. *Ambulyx gannasens* Stoll.

TAB. 17.

Fig. 1. *Pachygonia subhamata* Walk.
 " 2. *Perigonia restituta* Walk.
 " 3. *Hemaris thysbe* Fabr.
 " 4. *Perigonia glaucescens* Walk.
 " 5. *Himantoides undata* Walk.
 " 6. *Lepisesia flavofasciata* Walk.

TAB. 18.

Fig. 1. *Dilindia brontes* Dru.
 " 2. *Theretra falco* Walk.
 " 3. *Darapsa rhodocera* Walk.
 " 4. *Pachylia resumens* Walk

* Looks very little like *clarkiae*.

NORTH AMERICAN LEPIDOPTERA, SPHINGIDÆ.

TAB. 19.

Fig. 1. *Ellema bombycoides* Walk.
 " 2. *Dilophonota guttularis* Walk.
 " 3. *Pachylia inconspicua* Walk.
 " 4. *Cautethia noctuiformis* Walk.
 " 5. *Arctonotus lucidus* Boisd.

TAB. 20.

Fig. 1. *Philampelus anchemiolus* Cram.
 " 2. *Calliomma pluto* Fab.
 " *thorates* Hüb.
 " 3. *Aluron chloroptera* Perty.
 " 4. *Phlegethontius hannibal* Stoll.

TAB. 21.

Fig. 1. *Aellopos tautalus* Linn.
 " 2. *Triptogon gorgon* Cram.
 " 3. *Eusmerinthus cerisii* Kirby.
 " 4. " " "

TAB. 22.

Fig. 1. *Darapsa porcus* Hüb.
 " 2. *Everyx irrorata* Grote.
 " 3. *Theretra nechus* Cram.
 " 4. *Darapsa gundlachi* Herr.-Schäff.
 " 5. *Theretra robinsonii* Grote.
 " 6. *Deilephila calverleyi* Grote.

TAB. 23.

Fig. 1. *Dilophonota œnotrus* Stoll.
 " 2. " *melancholica* Grote.
 " 3. " " " "
 " 4. " *ello* Linn.
 " 5. *Isognathus congratulans* Grote.
 " 6. " *rimosus* Grote.

TAB. 24.

Fig. 1. *Perigonia lusca* Fabr.
 " 2. " *lefebyrei* Luc.
 " 3. *Syzygia afflita* Grote and Rob.
 " 4. *Diludia brontes* Dru.
 " 5. *Pseudosphinx tetrio* Linn.
 " 6. *Hyloicus poeyi* Grote.

TAB. 25.

Fig. 1. *Amphonyx antæus* Dru.
 " 2. " *duponchelii* Poey.
 " 3. *Phlegethontius cingulata* Fabr.
 " 4. *Hemeroplanes pseudothyreus* Gr.
 " 5. *Triptogon ocypete* Linn.
 " *danum* Cram.

TAB. 26.

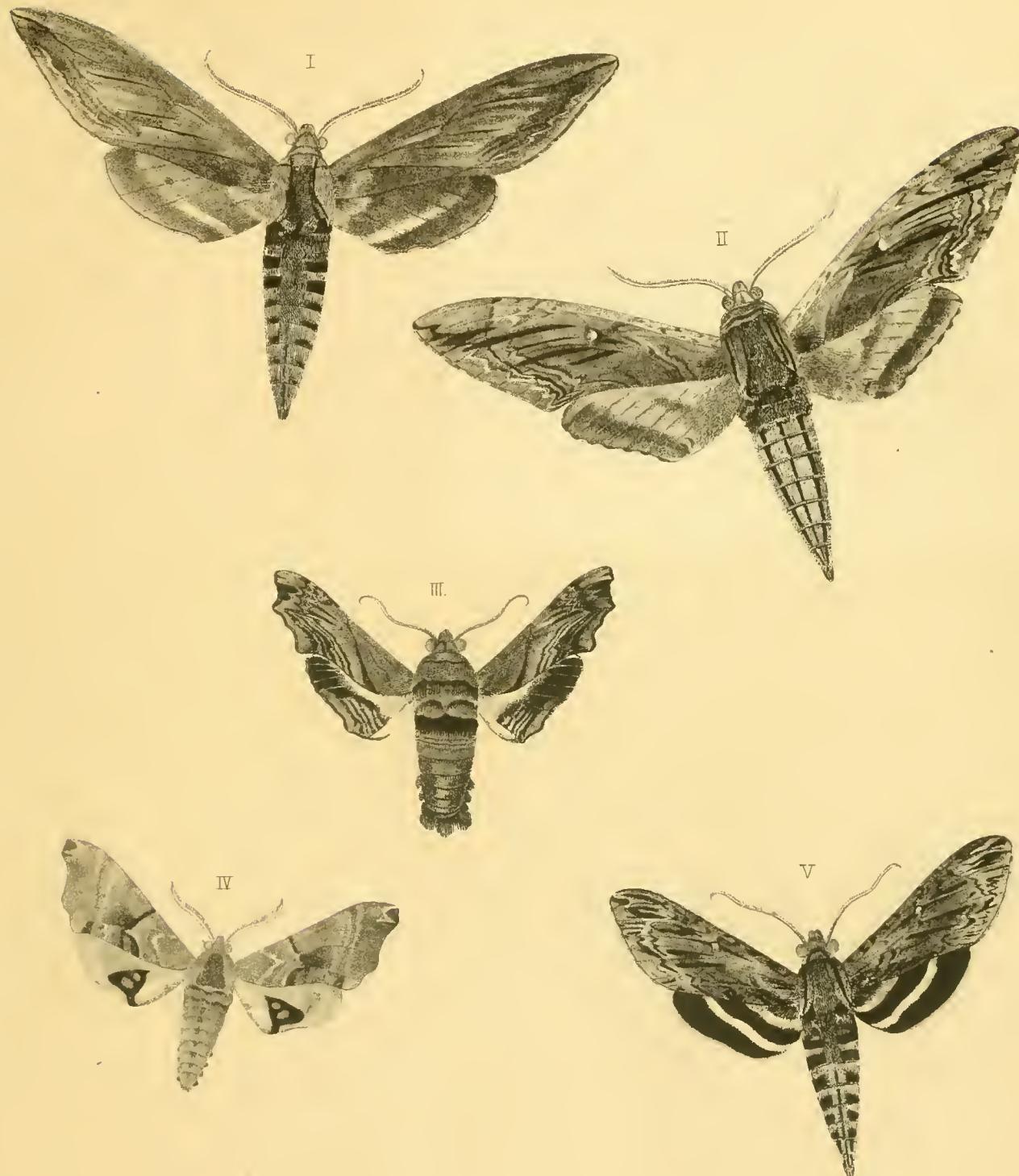
Fig. 1. *Philampelus licaon* Cram.
 " 2. *Hemaris gracilis* Grote and Rob.
 " 3. *Perigonia divisa* Grote.
 " 4. *Theretra nitidula* Clem. var. *lævis* Grote and Rob.
 " 5. *Theretra ceratonioides* Grote and Rob.
 " 6. *Dilophonota pallida* Grote.

TAB. 27.

Fig. 1. *Tatoglossum caricae* Linn.
 " 2. *Syzygia afflita* Grote and Rob.
 " 3. *Aellopos blainii* Herr.-Schäff.
 " 4. *Dupo strenua* Mén.

North American Lepidoptera.

Tab 1.



I. SPHYNX CINEREA. ♂

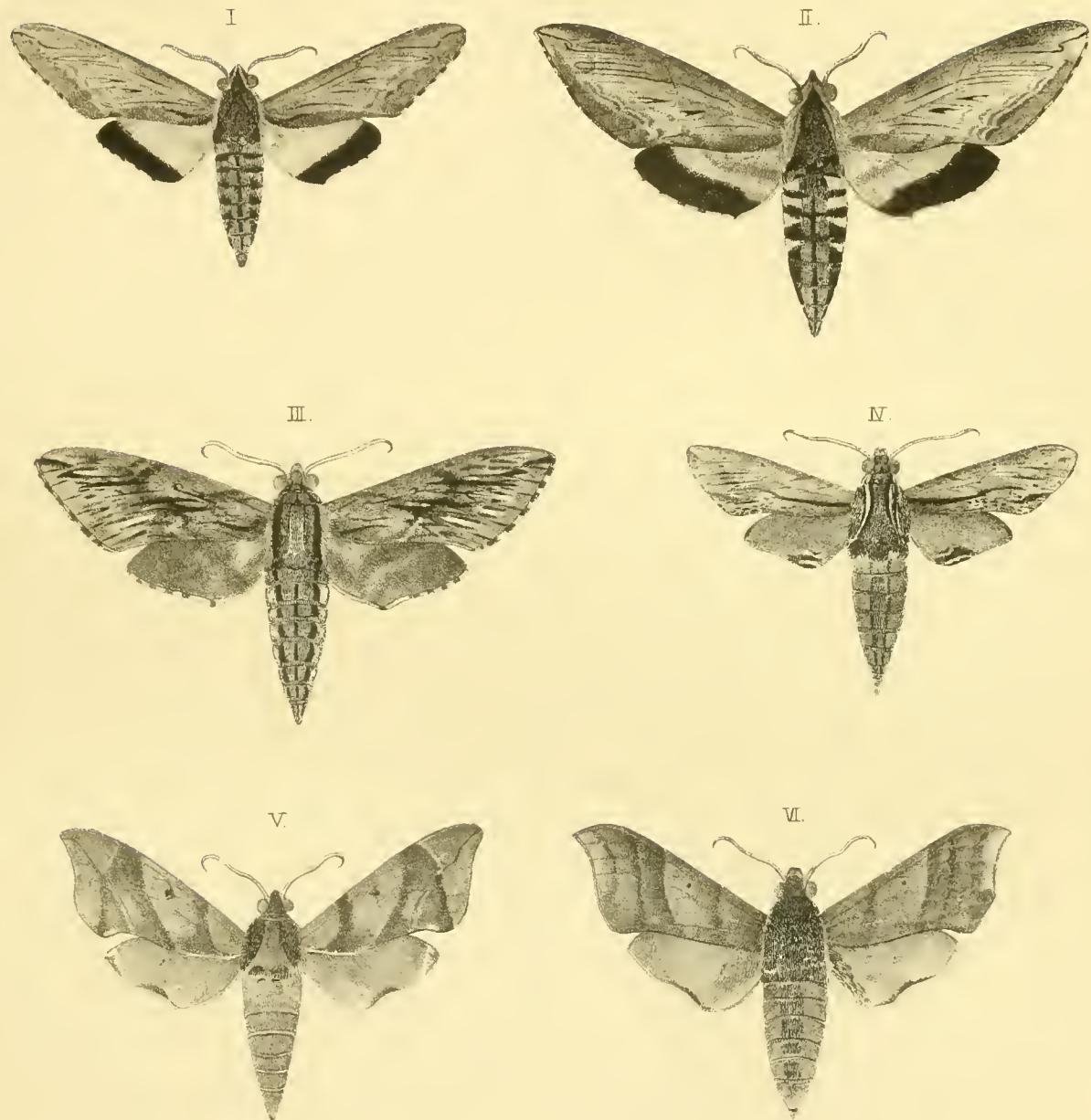
II. CERATOMIA QUADRICORNIS. ♂

SPHYNX SORDIDA ♂

III. THYREUS ABBOTTII ♂

IV. SMERINTHUS GREMINATUS ♂

North American Lepidoptera.



I SPHYNX LUSCITIOSA ♂

II. ————— DO ————— ♀

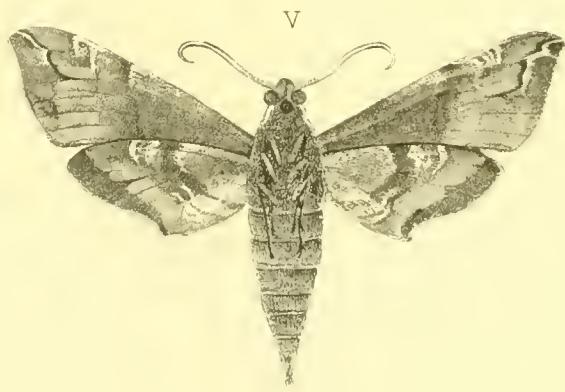
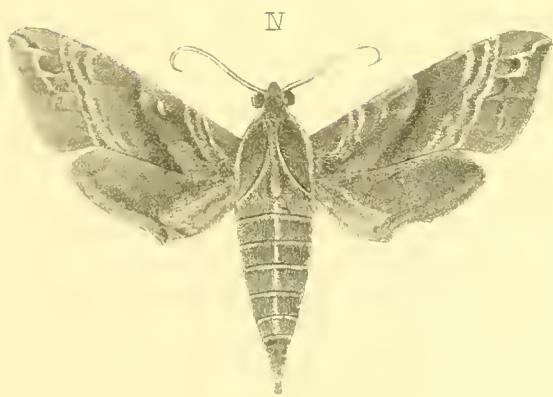
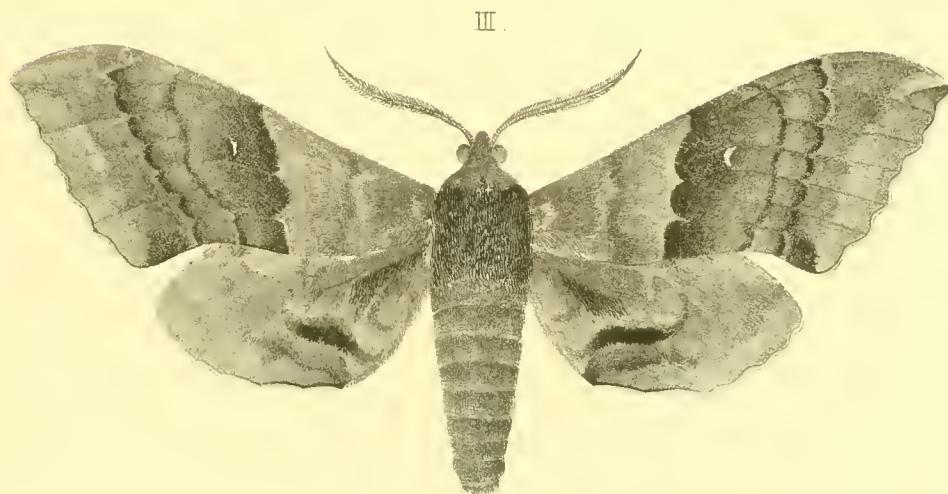
III. ————— PLEBEJA ♀

IV SPHYNX OBSCURA ♂

V CHAEROCAMPA PAMPINATRIX ♀

VI. ————— CHAERILUS ♀

North American Lepidoptera.



I PTEROGON INSCRIPTUM ♀

II. THYREUS NESSUS ♂

III SMERINTHUS MODESTA ♂

VI CHAEROOCAMPA VERSICOLOR ♀

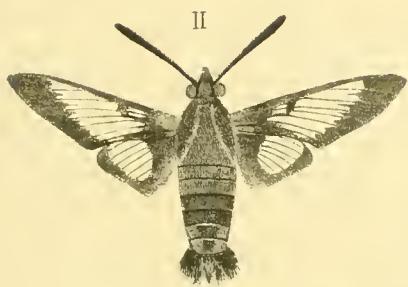
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North American Lepidoptera.

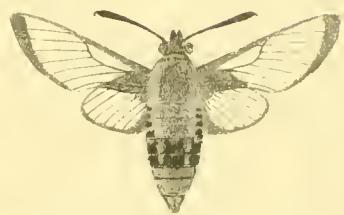
I.



II



III



IV.



V

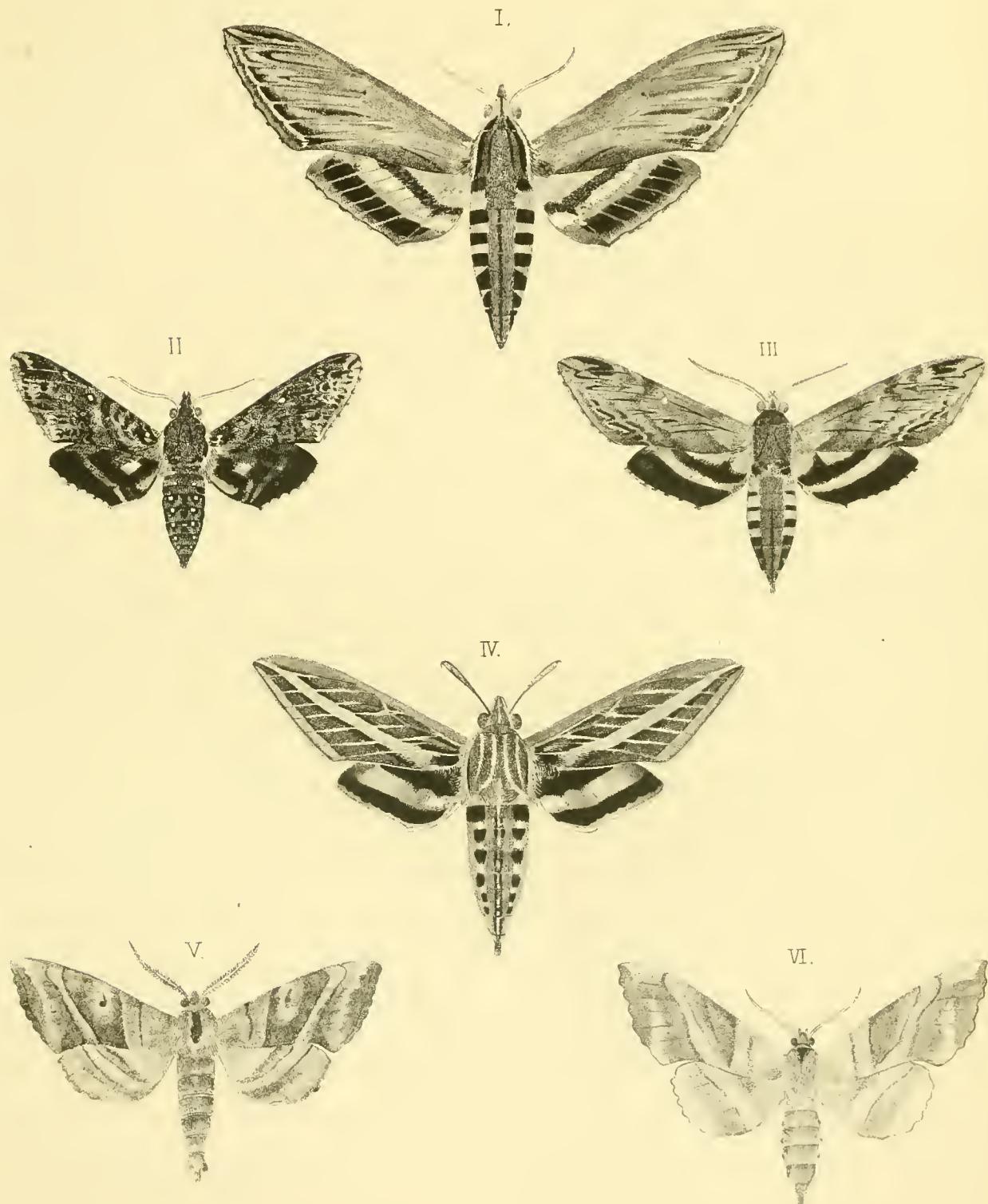


VI

I. *PHILAMELUS VITIS* ♀II. *SESSIA THYSBE* ♂III. DO *DIFFINIS* ♀IV. *SMERINTHUS EXCAERATUS* ♂V. *ENYO LUGUBRIS* ♀VI. *DEILEPHILA PENTHERI* ♀



North American Lepidoptera.

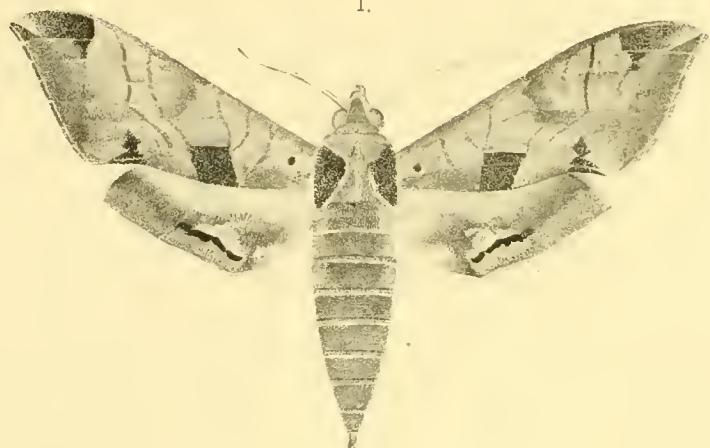


I. SPHYNX KALMIAE ♀
 II. DOLBA HYLAEUS ♂
 III. SPHYNX GORDIUS ♂

IV. DEILEPHILA DAUCUS ♂
 V. SMERINTHUS JUGLANDIS ♂
 VI. DO DO ♀

North American Lepidoptera.

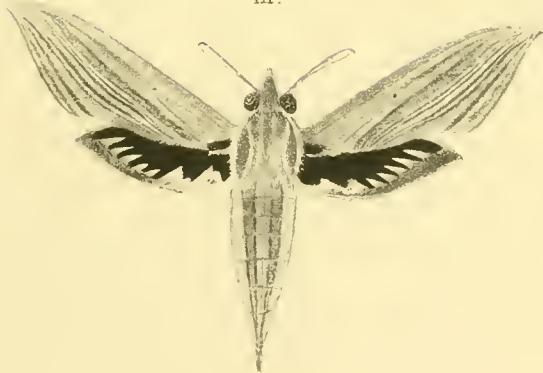
I.



II



III.



I. AMPHELUS ACHEMON ♀

II. DO SATELLITIA ♀

III. CHAEROCAMPA TERESA ♀

IV. ELLEMA HARRISII ♀

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and S. CALVERLEY, } New York
and W. H. EDWARDS.

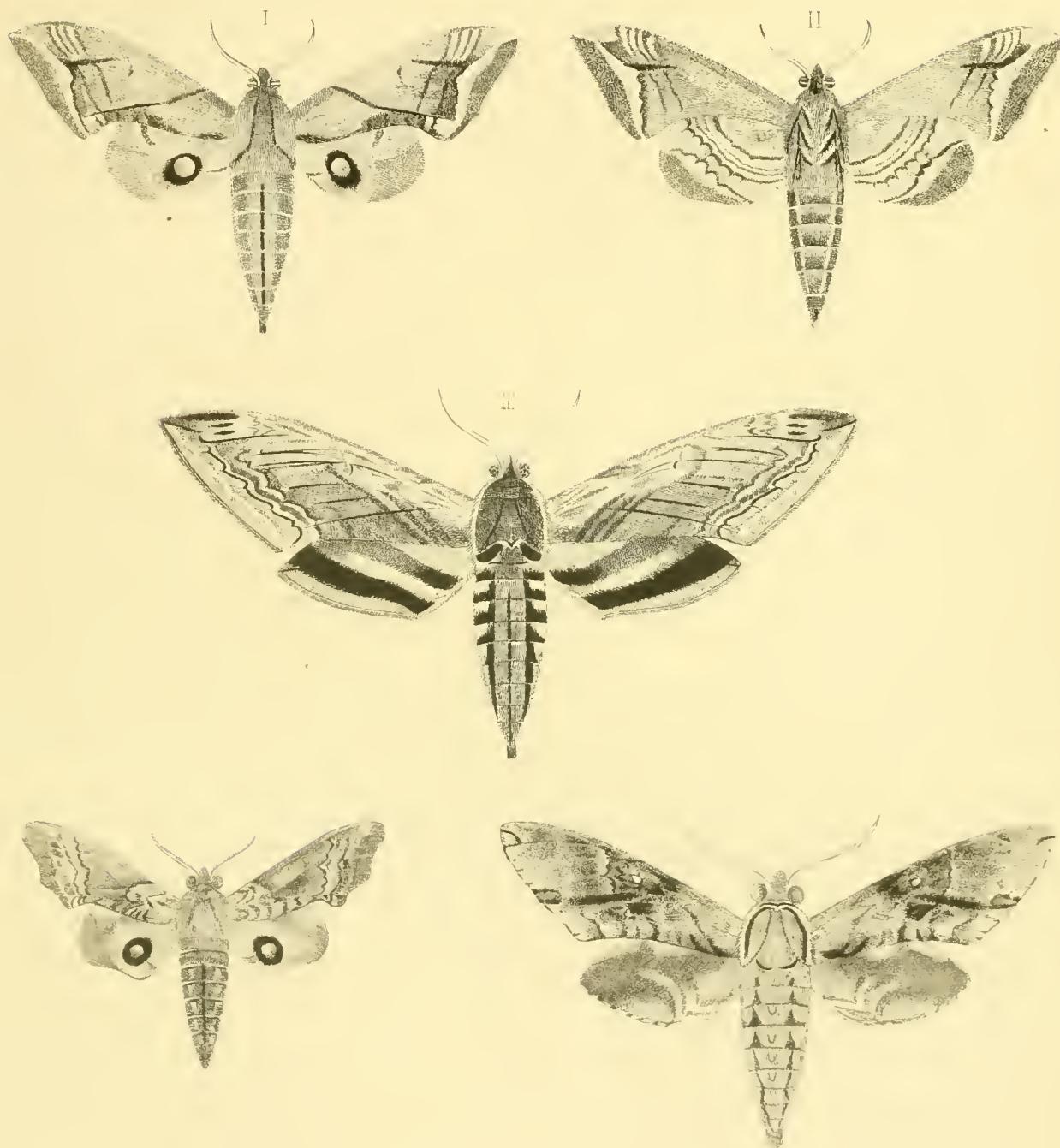
C. Wm. 1. 1. 1. 1.

North American Lepidoptera.



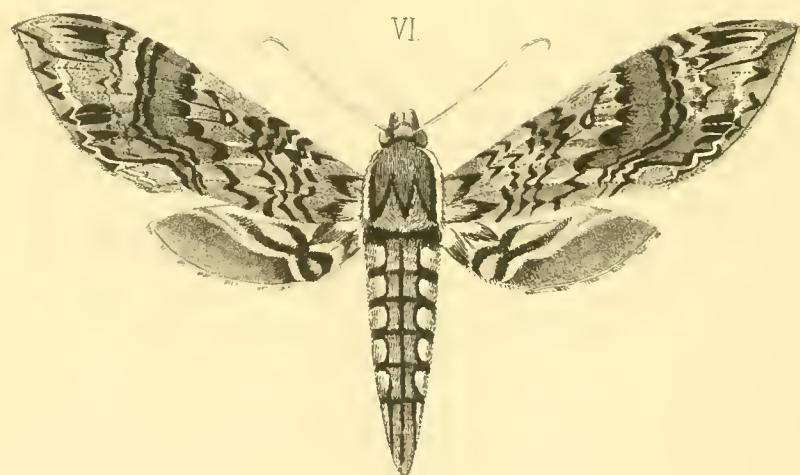
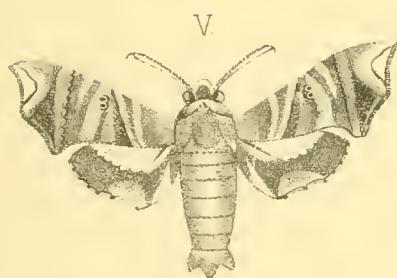
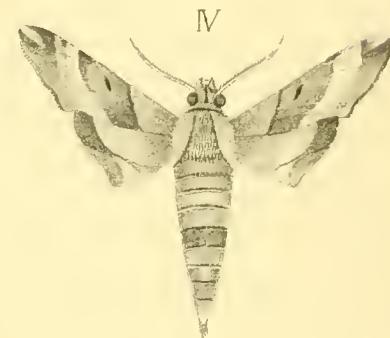
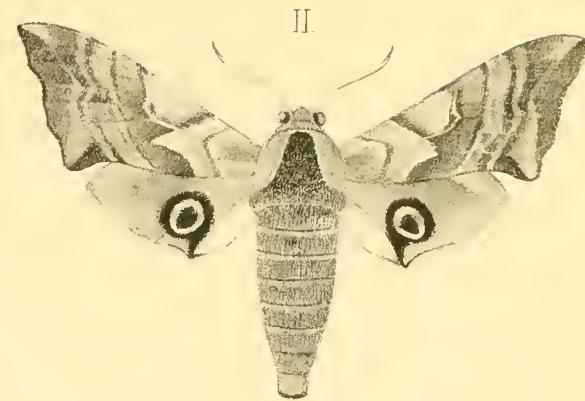
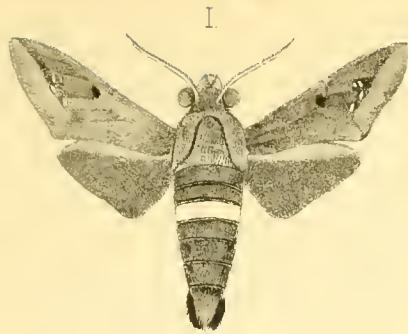
I. CERATOMIA BRUNTES ♂
 II. SPHYNX GINGULATA ♀
 III. DO. ♂ = MACULATA ♂
 DO. CAROLINA ♂

North American Lepidoptera.

I. *SMERINTHUS ASTYLUS* ♀II. DO. DO. *W. H. Edwards*III. *SPHYNX DRUPIFERARUM* ♀V. *SMERINTHUS MYOPA* ♂V. *SPHYNX JASMINEARUM* ♂

North American Lepidoptera.

PLATE IX.



I. MACROGLOSSA TANTALUS ♂
 II. EMERINTHUS OPHTHALMICUS ♀
 III. MACROSILA RUSTICA ♂

IV. PROSERPINUS GAURAE ♂
 V. PERIGONIA TUSCA ♂
 VI. CHAEROCAMPA PELLENIA ♀

North American Lepidoptera.

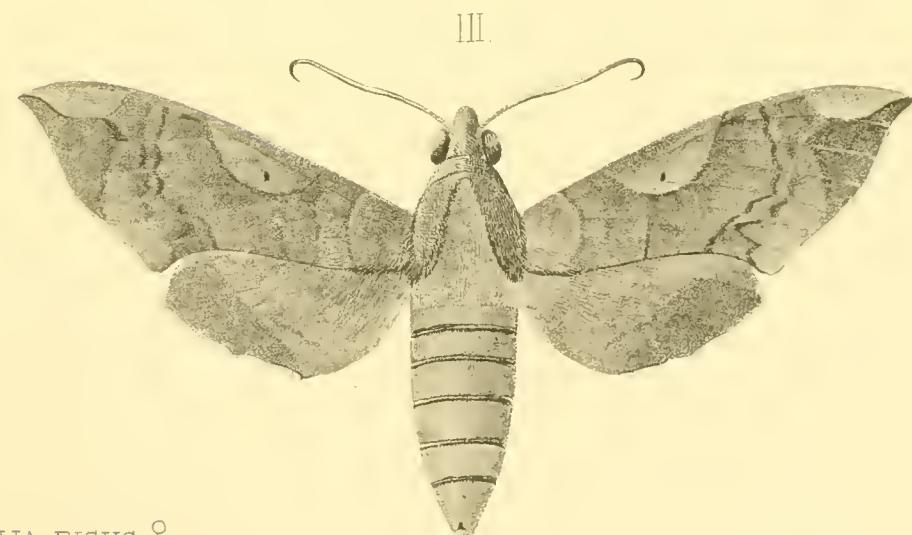
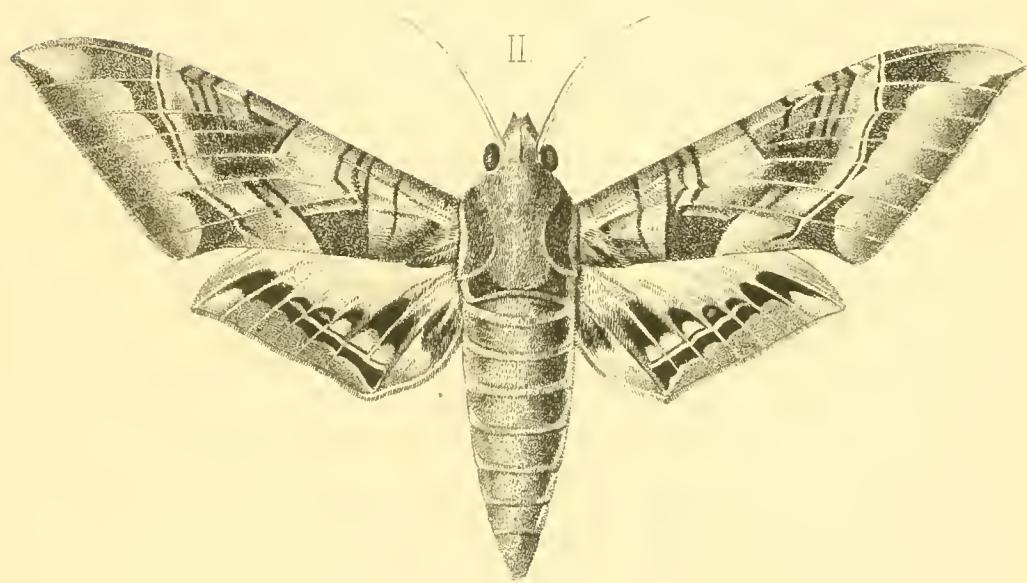


I MACROSILA OCHUS ♂

II MACROSILA ANTAEUS ♀

III MACROSILA FLORESTAN ♀

North American Lepidoptera.

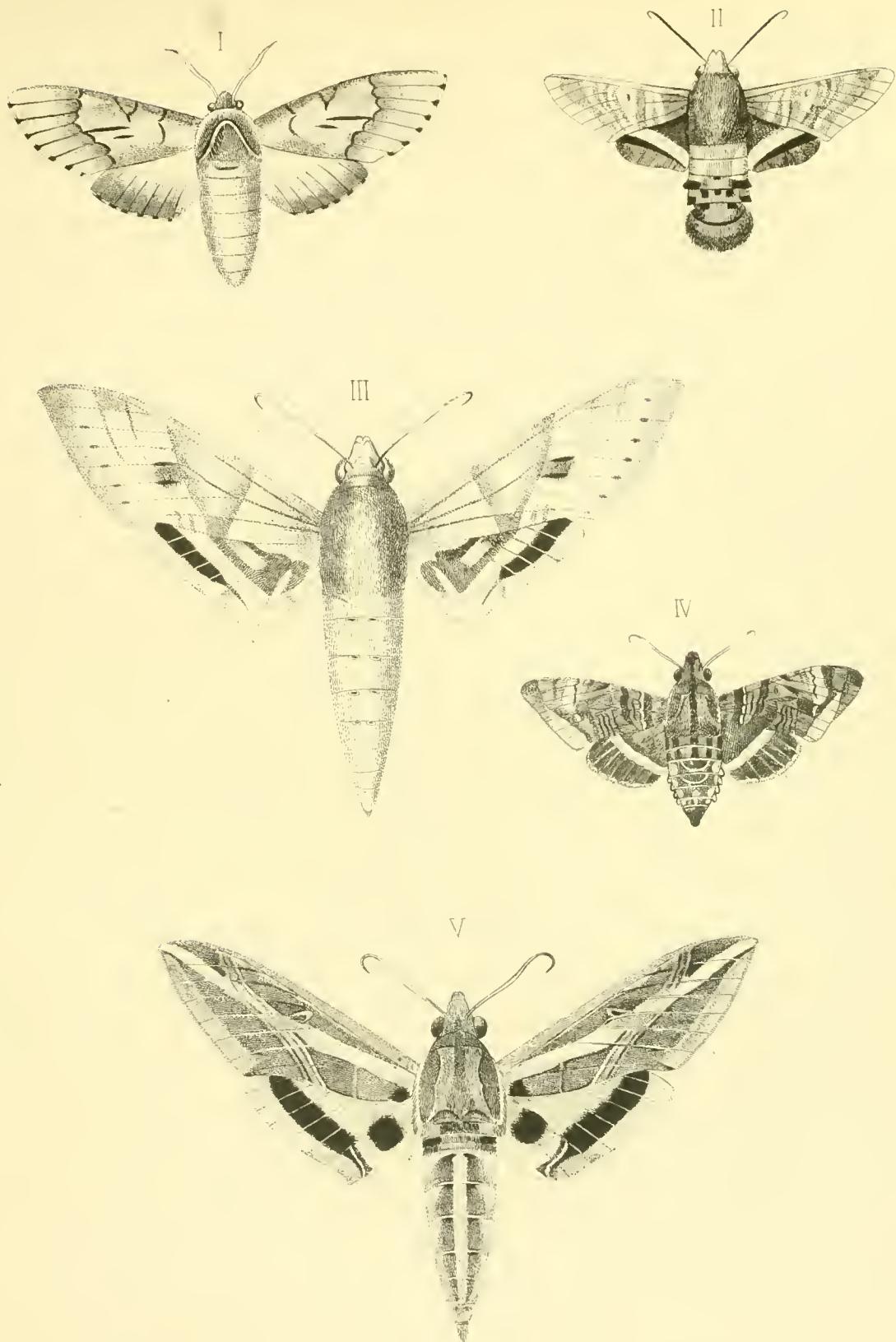


I. PACHYLIA FICUS ♀

III. PACHYLIA INORNATA ♀

II. PHILAMPELUS TYPHON ♀

North American Lepidoptera.

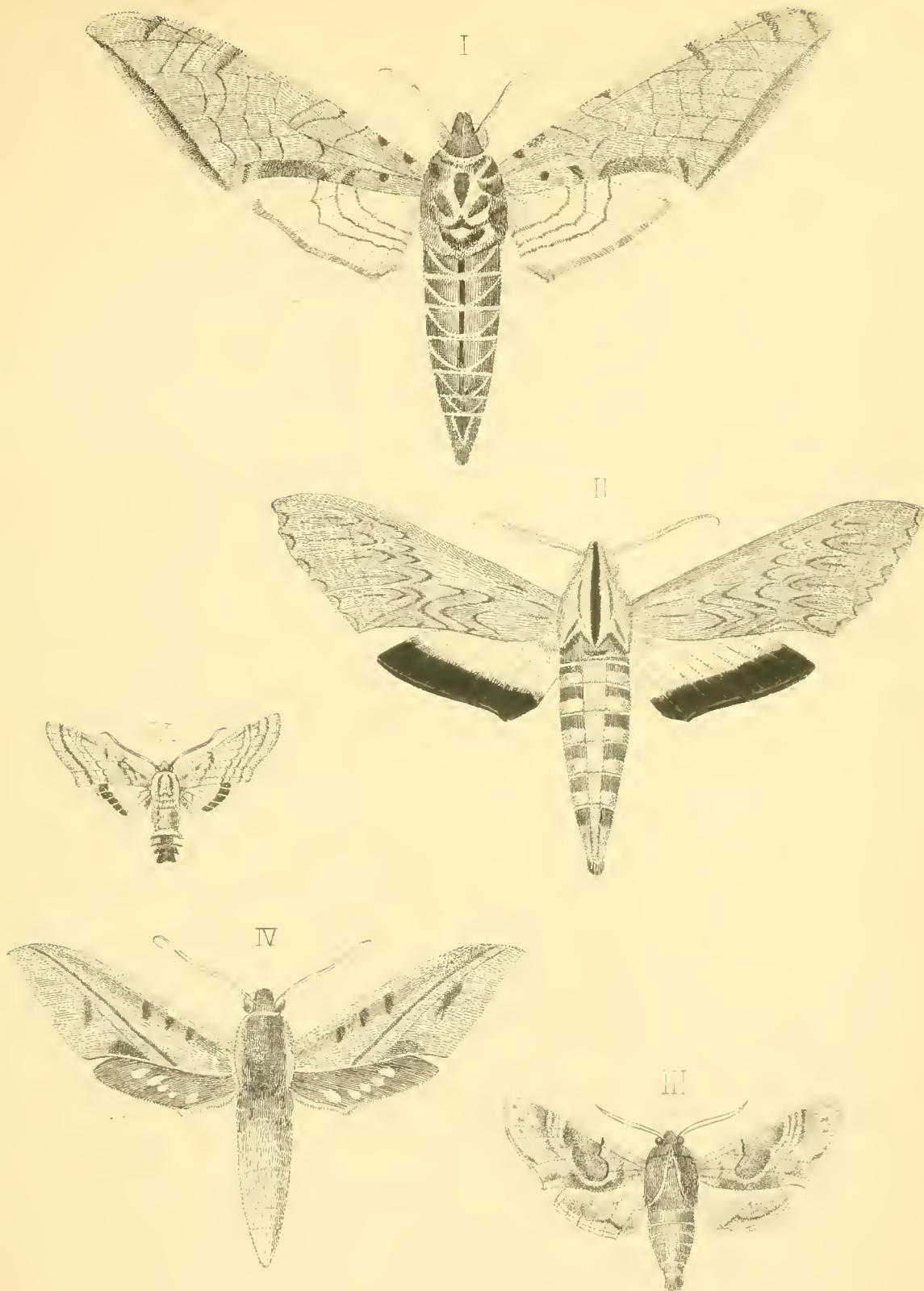


I ANGERYX CONIFERARUM ♀
II MACROGLOSSA CECULUS ♂

V PHILAMPELUS VITIS ♀

III PHILAMPELUS LABRUSCAE ♀
IV MACROGLOSSA SAGRA ♀

North American Lepidoptera.

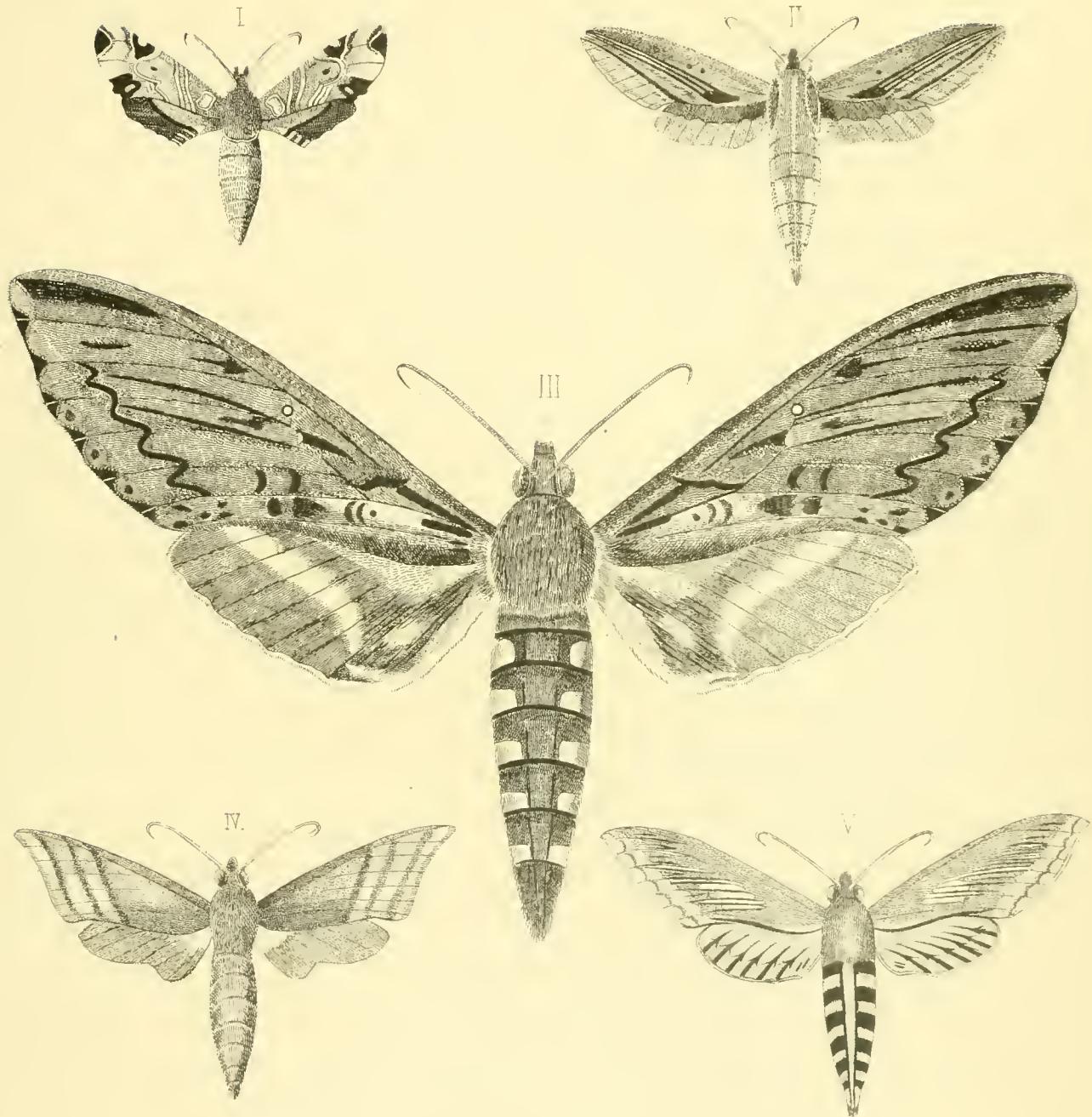


I. AMBULYX STRIGILIS ♀
II. ANCERYX ALOPE ♂

IV. PROSERPINUS PHAETON ♂

III. PROSERPINUS CLARKIAE ♂
IV. CHAEROCAMPA CHIRON ♀

North American Lepidoptera.

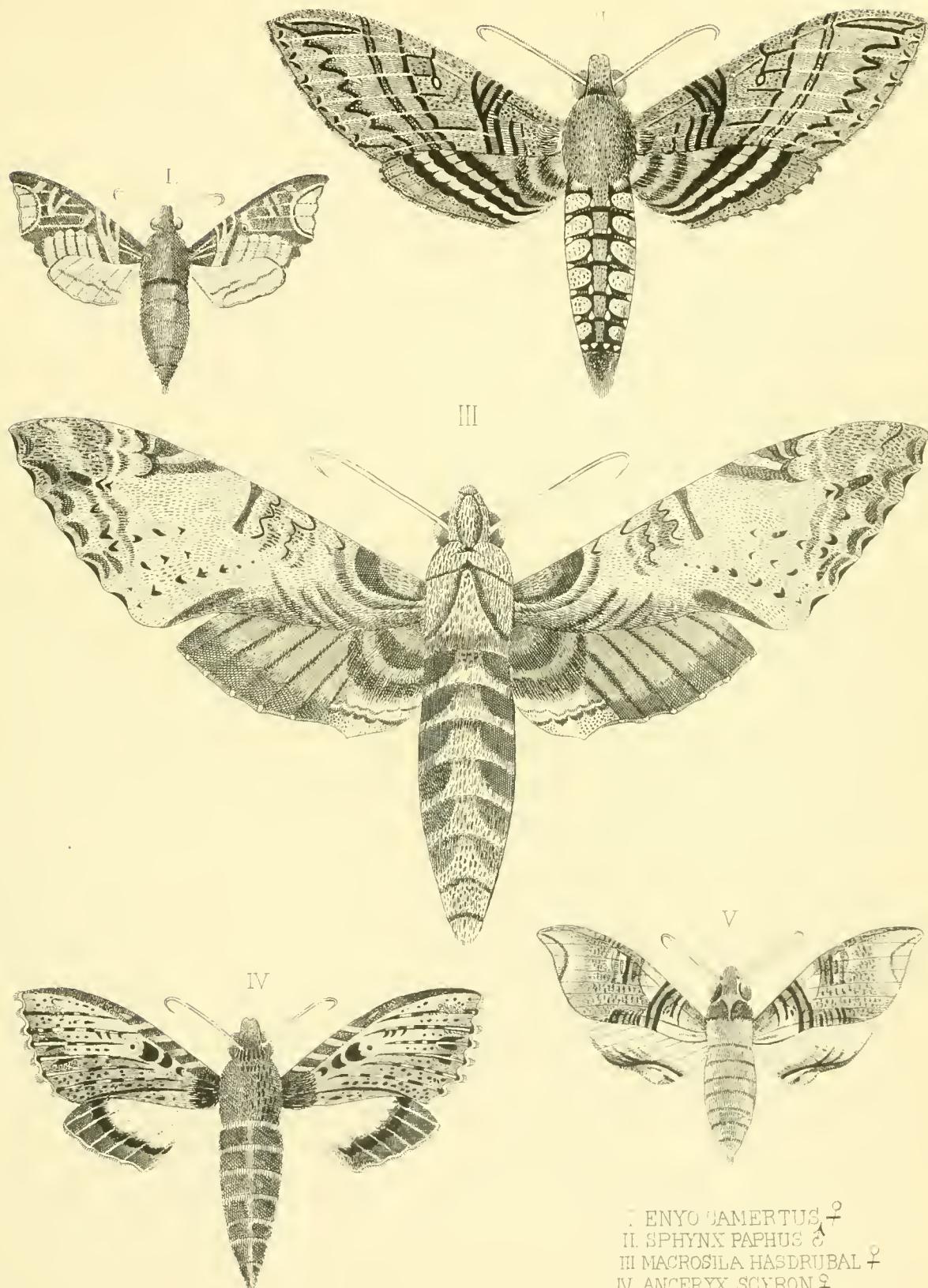


I. UNZUELA JAPIX ♀
II. HAERO CAMPUS DRANGUS ♂

V. ANCERYX CADIS ♂

III. MACROCEILA OLVENTILIS ♀
IV. MARAPSA PHOLUS ♀

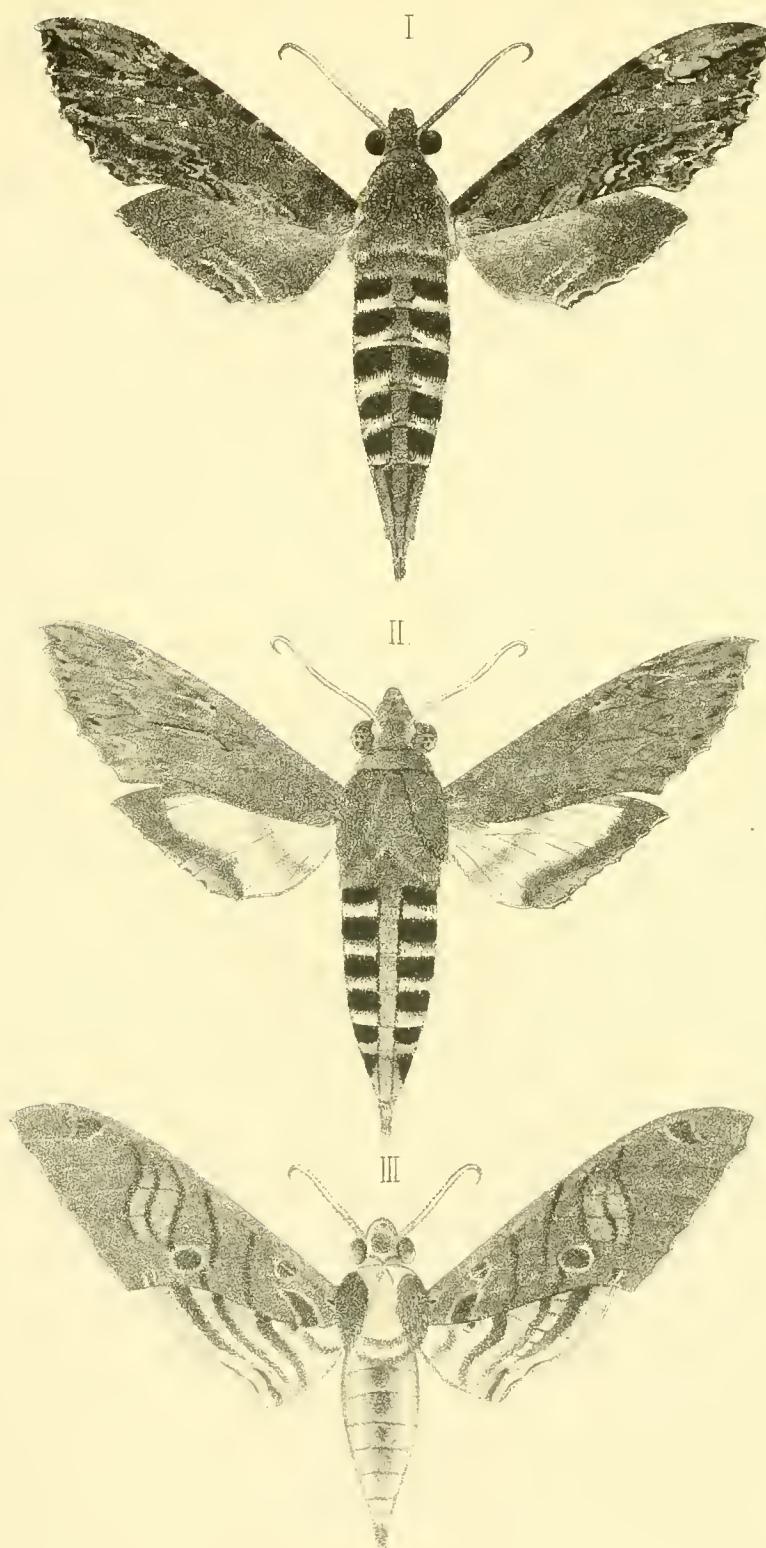
North American Lepidoptera.



I. ENYO CAMERTUS ♂
 II. SPHYNX PAPHUS ♂
 III. MACROSILA HASDRUBAL ♀
 IV. ANCERYX SCYRON ♀
 V. GALLIONMA LYCASTUS ♀

North American Lepidoptera.

PLATE XVI



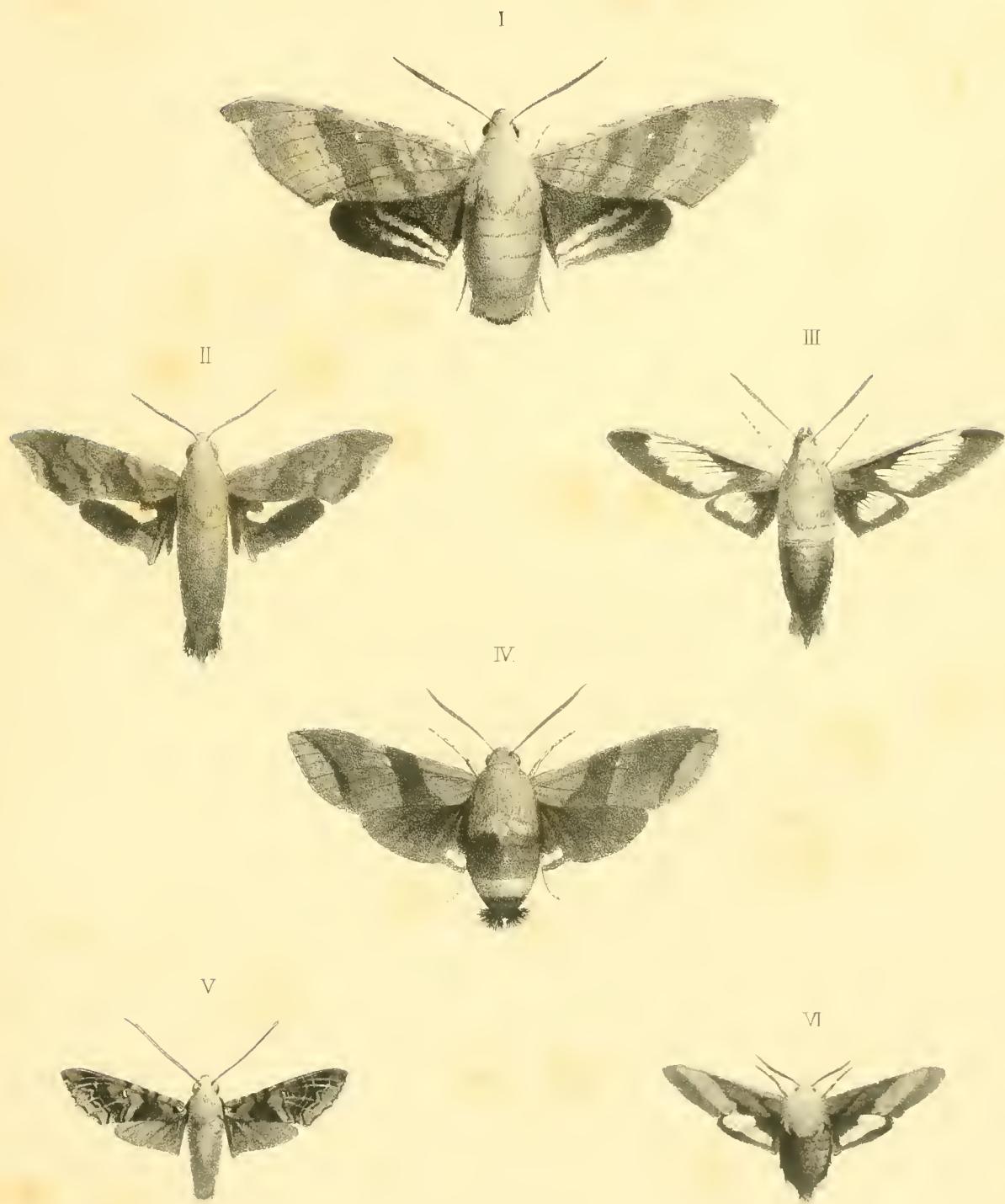
I. ANCERYX OENOTRUS ♀

III. AMBULYA PANASCUS ♂

II. ANCERYX ELLO ♀

North American Lepidoptera.

PLATE XVII

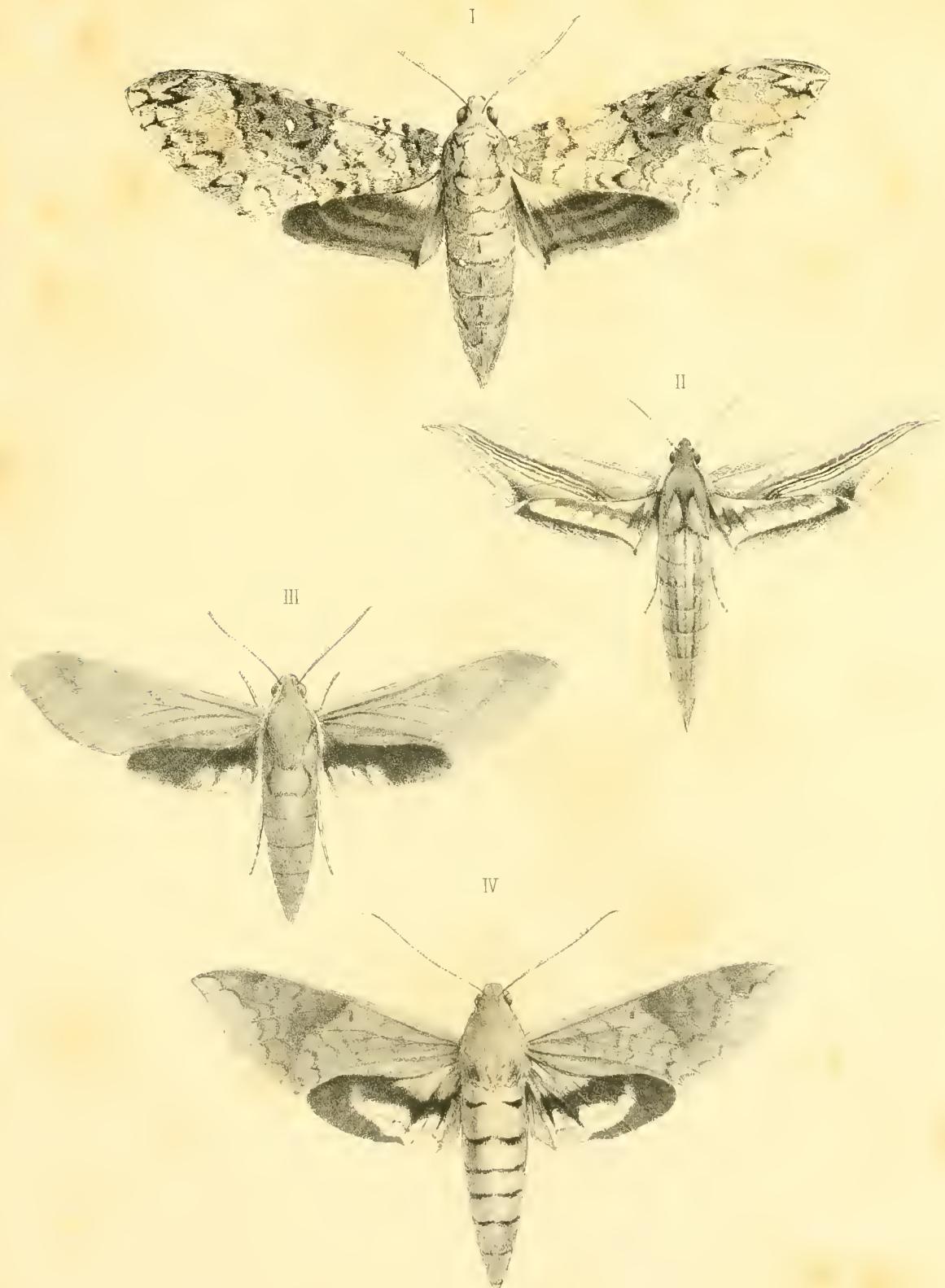


I PERIGONIA SUBHAMATA.
II PERIGONIA RESTITUTA
III SESIA FUSCICAUDIS

IV PERIGONIA GLAUCESCENS
V PERIGONIA UNDATA
VI MACROGLOSSA FLAVOFASCIATA

North American Lepidoptera.

PLATE XVIII.



I. MACROSILA COLLARIS
II. CHÆROCAMPA FALCO.
III. DARAPSA RHODOCERA
IV. PACHYLLIA RESUMENS

North American Lepidoptera.

PLATE XIX

I



II



III



IV

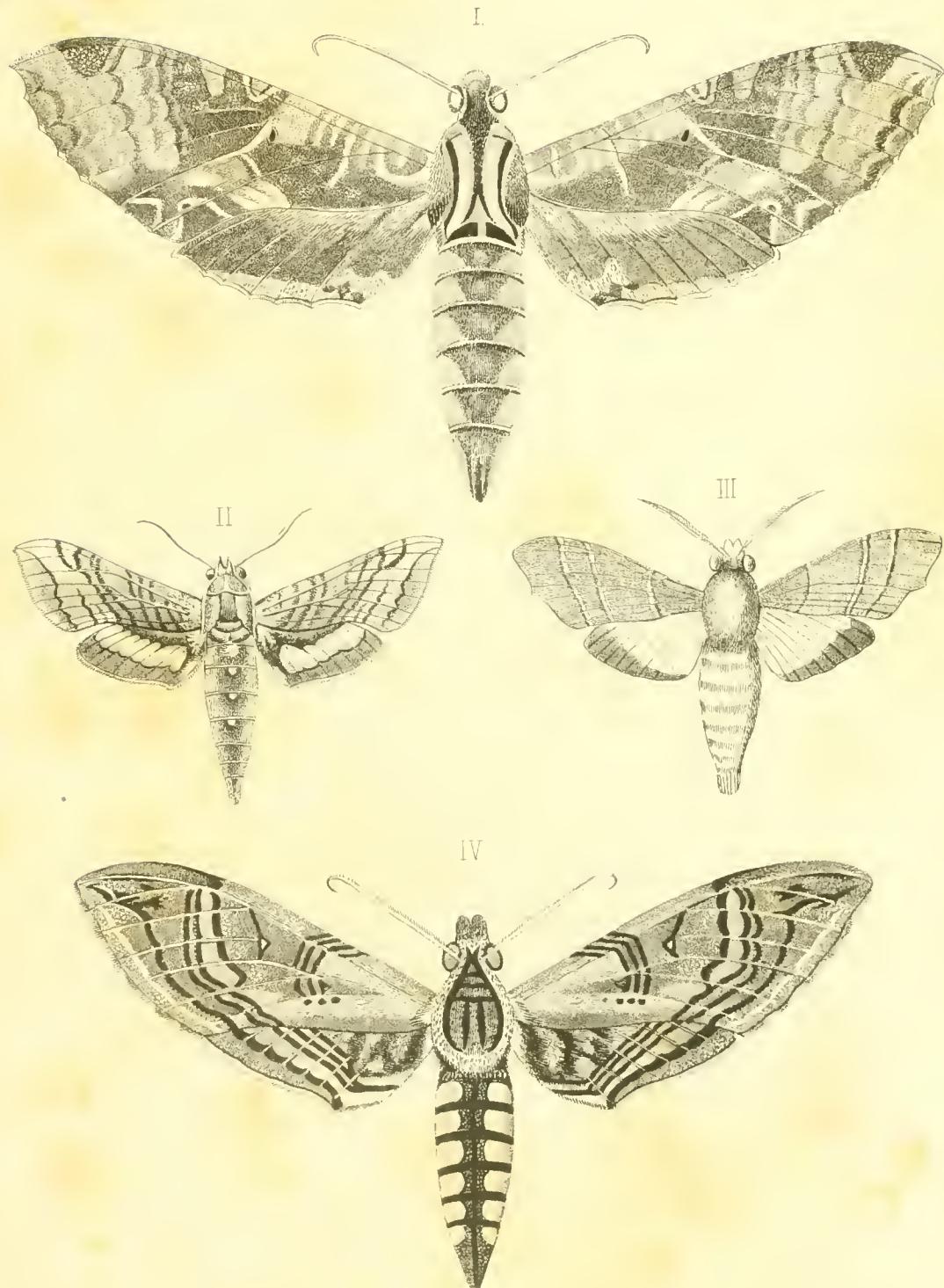


V



I. LAPARA BOMBYCOIDES || III. PACHYLIA INCONSPICUA
II. ANCERYX GUTTULARIS || IV. OENOSANDA NOCLUIFORMIS
V. ARCTONOTUS LUCIDUS.

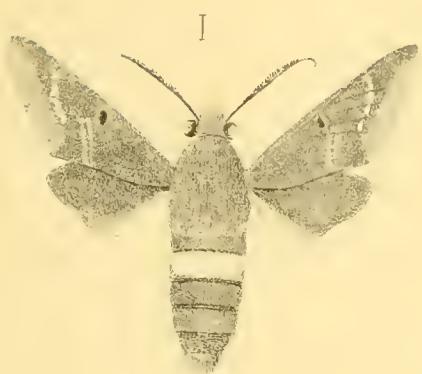
North American Lepidoptera.



I. PHILAMPELUS ANCHEMOLUS ♀
II. PERGESA THORATES

III. ENYO CHLOROPTERA ♀
IV. SPHYNX HANNIBAL

North American Lepidoptera.

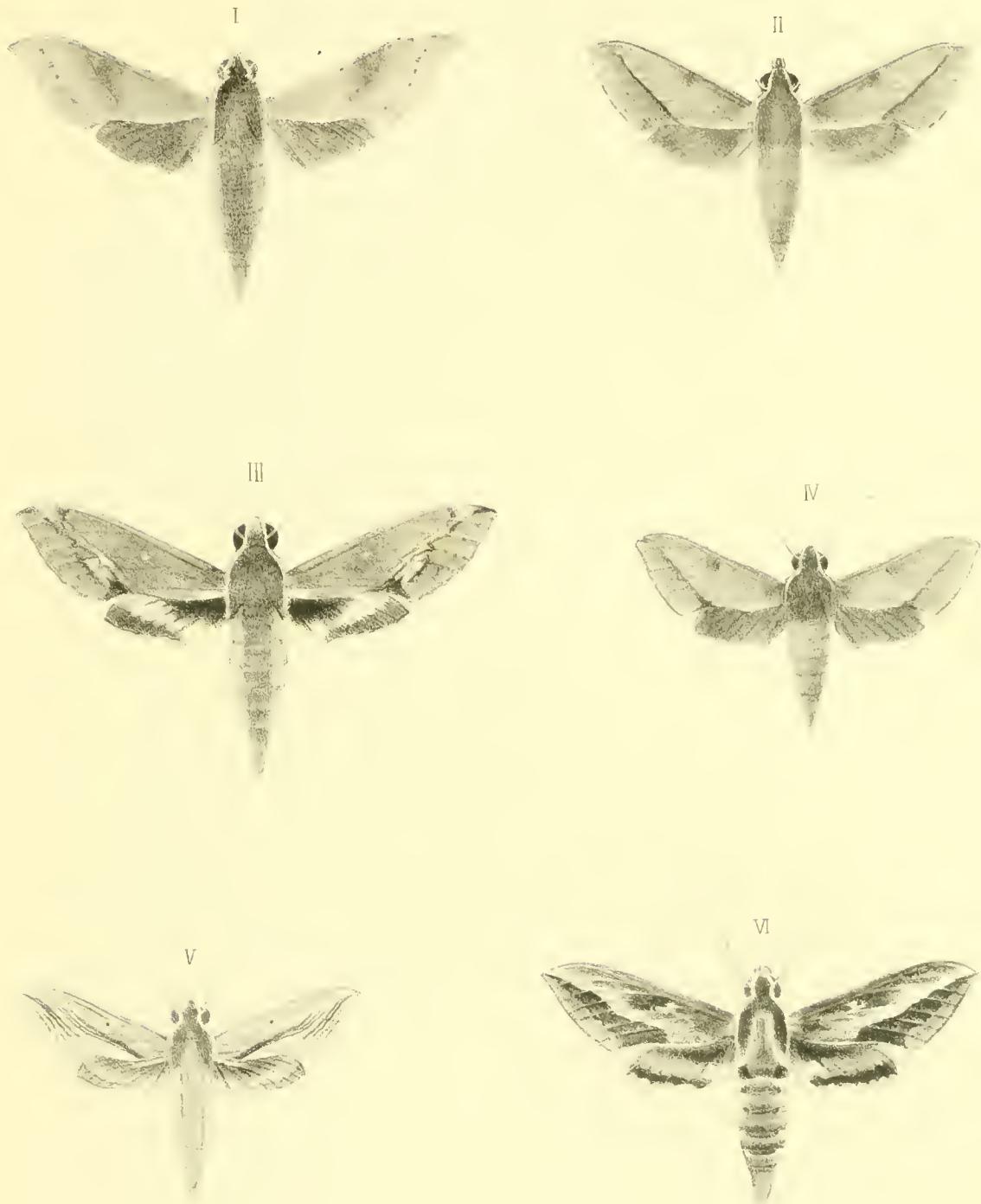


I. MACROGLOSSA TANTALUS ♂
II. ENYO GORGON ♀

III. SMERINTHUS CERISII ♂
IV. D° WINGS ENLARGED

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and S. CALVERLEY
W.H. EDWARDS } New York

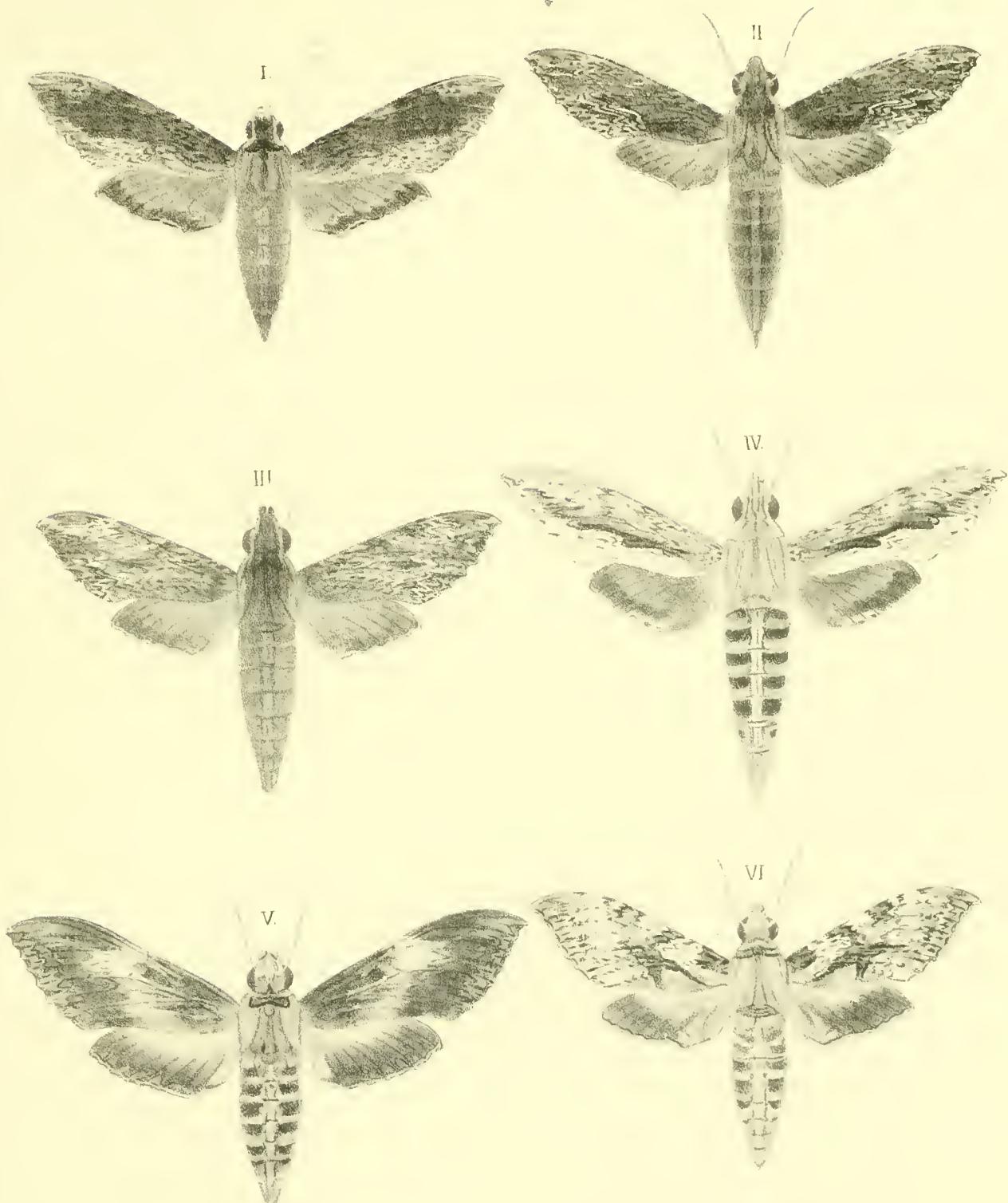
North American Lepidoptera.



I. CHÆROCAMPA PORCUS, ♂.
 II. CHÆROCAMPA IRRORATA ♀.
 III. CHÆROCAMPA NECHUS, ♀.

IV. CHÆROCAMPA GUNDLACHII ♂.
 V. CHÆROCAMPA ROBINSONII ♂.
 VI. DEILEPHILA CALVERLEYI ♂.

North American Lepidoptera.

I. *ERINNYIS OENOTRUS*, ♀.II. *ERINNYIS MELANCHOICA*, ♂.III. *ERINNYIS* — — — —IV. *ERINNYIS ELLO*, ♂.V. *ERINNYIS CONGRATULANS*, ♀.VI. *ERINNYIS RIMOSA*, ♂.

North American Lepidoptera.



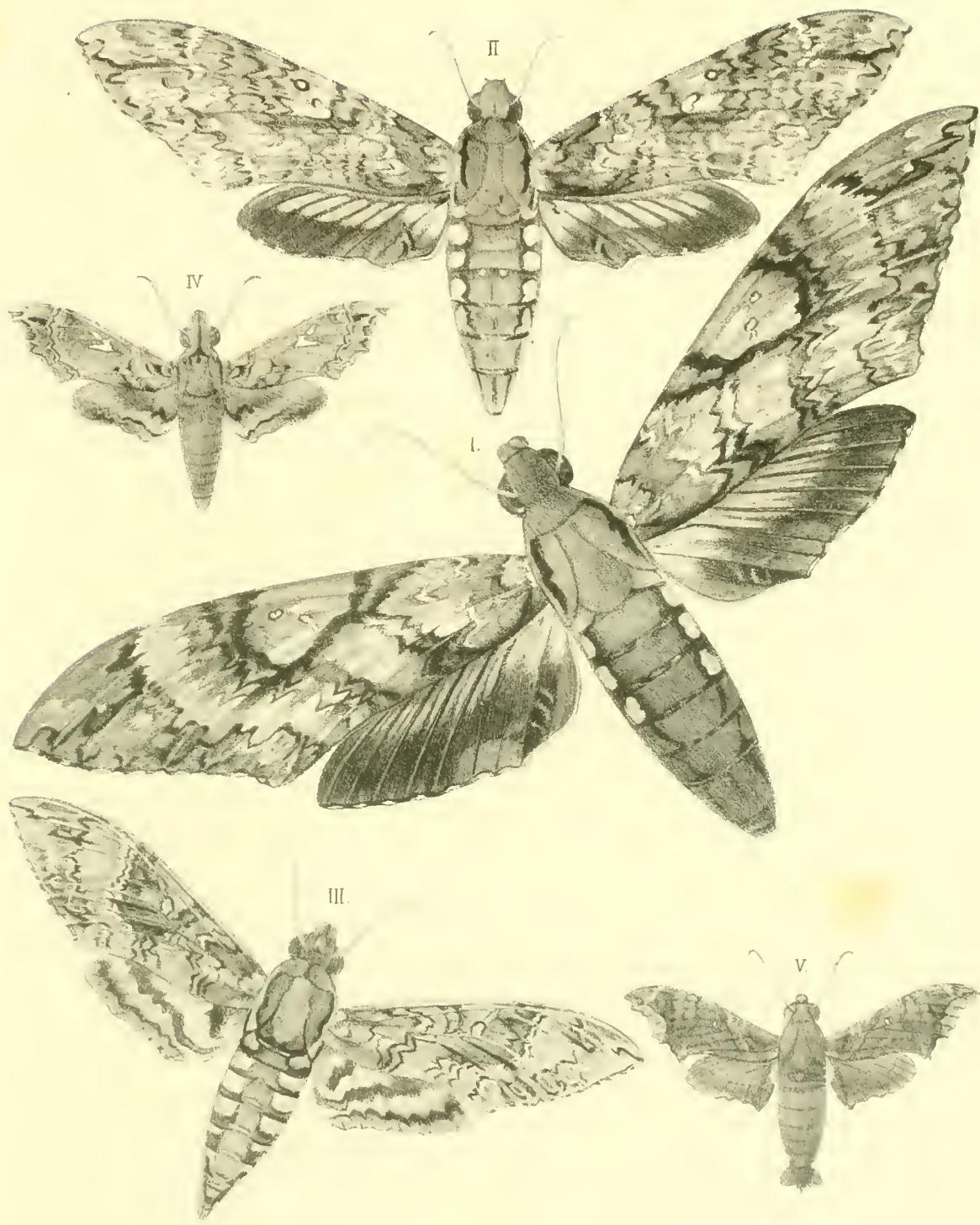
I. PERIGONIA LUSCA, ♂.
 II. PERIGONIA LEFEBVRII, ♂.
 III. SYZYGIA AFFLICTA, ♂.

IV. DILUDIA BRONTES, ♀.
 V. PSEUDOSPHINX TETRIO, ♂.
 VI. HYLOICUS POEYI,

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 and S. CALVERLEY
 and W. H. EDWARDS } New York.



North American Lepidoptera.



I. AMPHONYX ANTÆUS, ♀
II. AMPHONYX DUPONCHEL, ♀

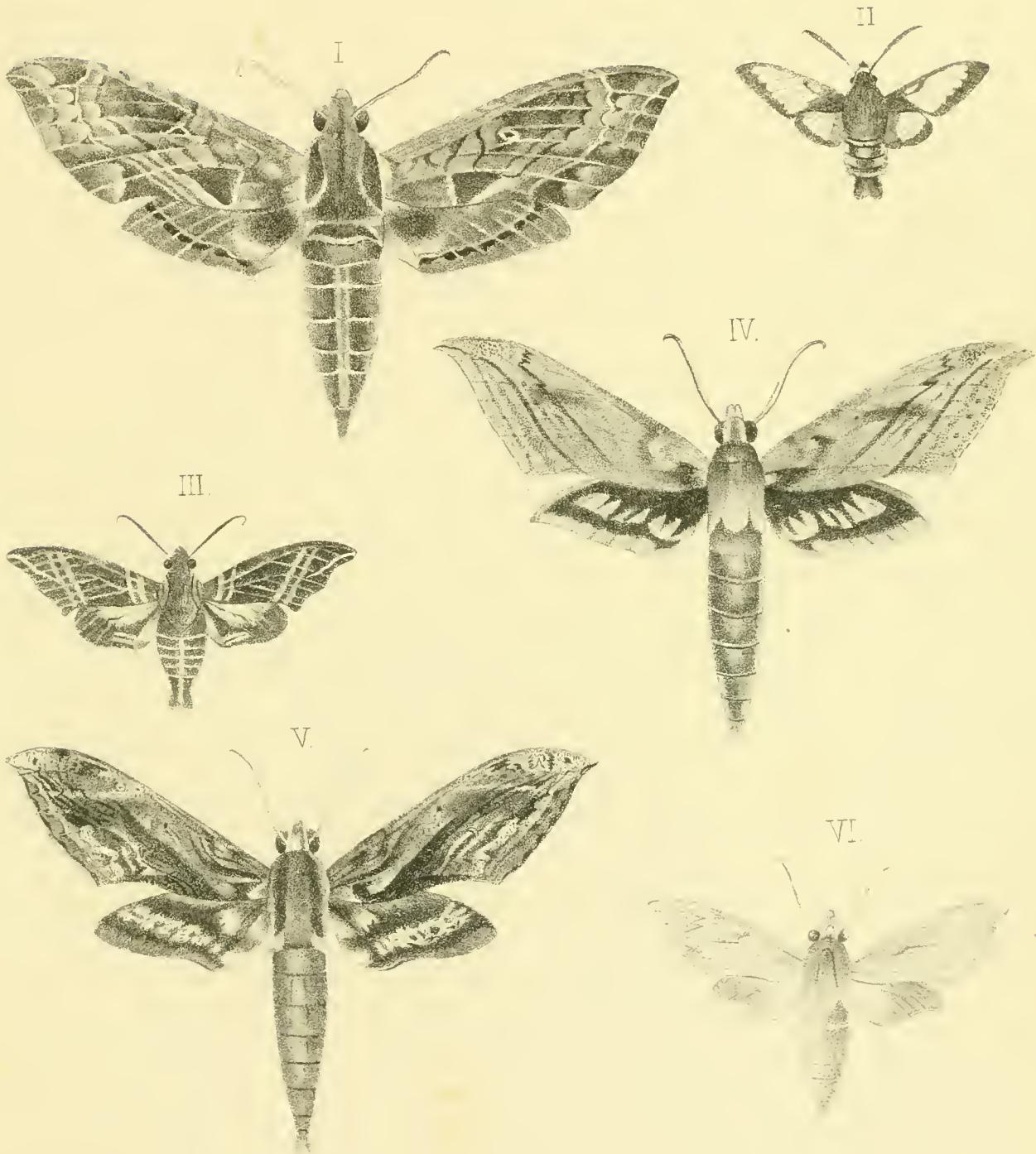
III. SPHINX CINGULATA, ♂
IV. HEMEROPLANES PSEUDOTHYREUS, ♂

V. ENYO DANUM, ♀

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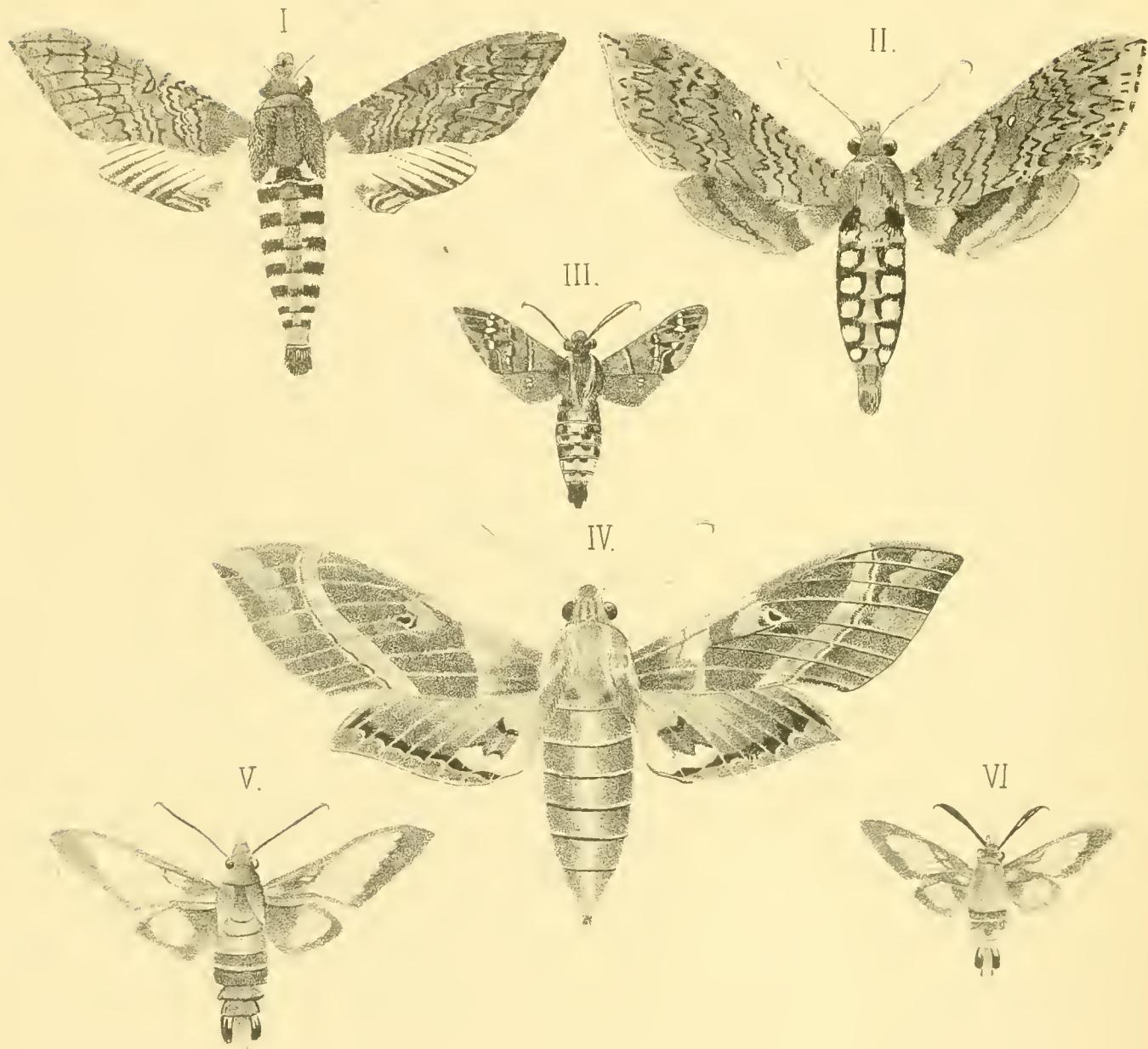
North American Lepidoptera.



I PHILAMPEUS YUCHON ♀
II HAEMORRHAGIA GRACILIS ♂
III PERIGONIA DIVISA ♂

IV CHAROCAMPA LAEVIS ♀
V DO CERATOMIIDES ♀
VI ERINNYIS PALLIDA ♀

North American Lepidoptera.



I. DILOPHONOTA CARICAE ♀

II. MACROSILA AFFLICTA ♀

III. AELOPOS BLAINI ♂

IV. CHAEROCAMPA STRENUA ♀

V. HAEMORRHAGIA BUFFALOENSIS ♂

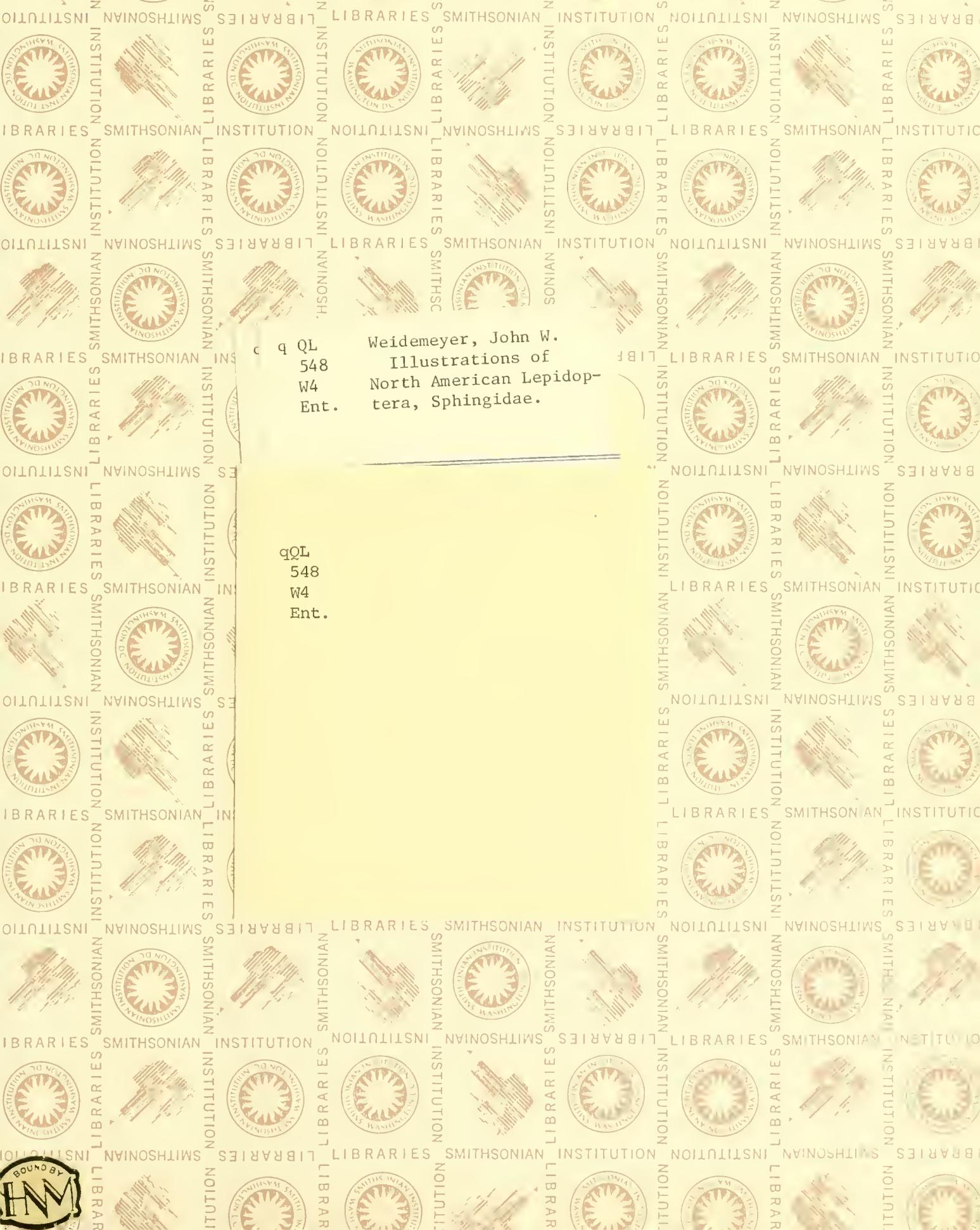
VI. FLORIDENSIS ♂



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tera, Sphingidae.

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